

HORTICULTURE LEDs

- Broad portfolio of mid-power & high-power LEDs for all applications
- Reported DLC Horticulture lifetimes up to Q90 >109k hrs
- Photophyll™ Select LEDs: new phosphor-converted LED color with blue and green spectral output tuned for horticulture applications

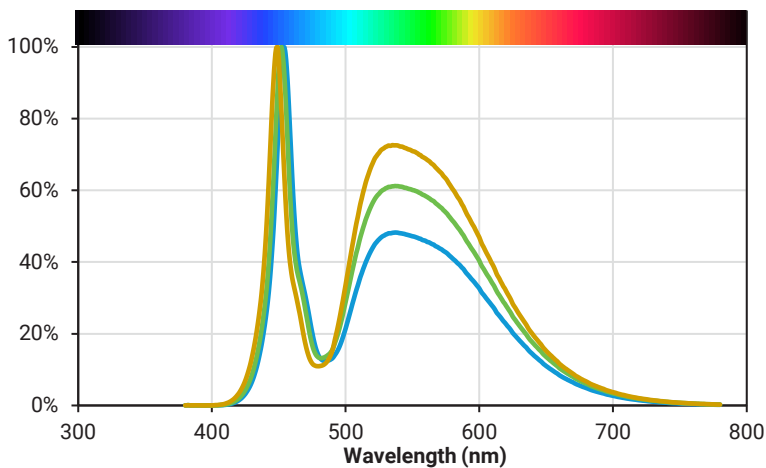
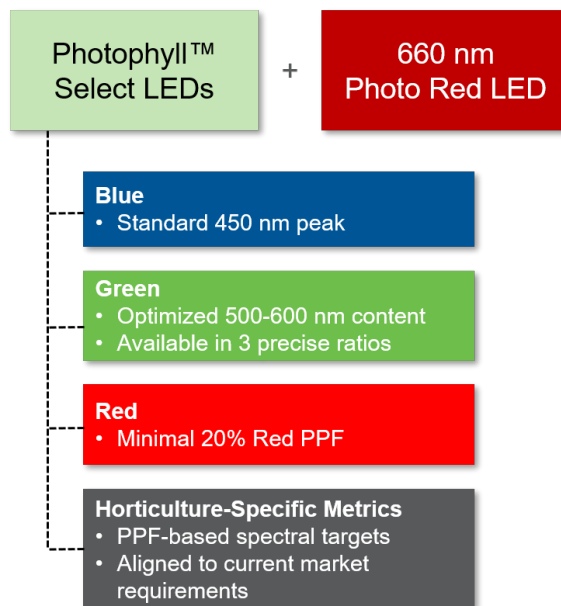
January 2023 (FS39R2)

PORTFOLIO OVERVIEW

LED	J Series® 5050 K Class	XLamp® XP-G3	XLamp XP-E2	J Series 2835 3V
Footprint (mm)	5.0 x 5.0	3.45 x 3.45	3.45 x 3.45	2.8 x 3.5
Max Power (W)	5	6	3	1
Photophyll™ Select				
White				
450 nm				
660 nm				
730 nm				
PC Purple				

PHOTOPHYLL™ SELECT LEDs

- Advanced horticulture spectrum optimized for maximum performance with 660 nm Photo Red LEDs
- First LEDs with precise control over the green/blue ratio



PHOTOPHYLL™ SELECT LEDs

Color	Red PPF %	Green/Blue Ratio	LED	Test Current (mA)	Min PPF (μmol/s)	Typ PPF (μmol/s)	PPF/W (μmol/J)	Order Code
Photophyll Select	20%	2.0	XLamp® XP-G3	350	2.50	2.60	2.62	XPGDWT-N1-0000-00XPP
			JB2835B 3V G Class	55	0.41	0.44	3.00	JB2835BWT-G-N001A0000-N0000001
		2.5	XLamp XP-G3	350	2.50	2.60	2.62	XPGDWT-Q1-0000-00XPP
			JB2835B 3V G Class	55	0.41	0.44	3.00	JB2835BWT-G-Q001A0000-N0000001
		3.0	XLamp XP-G3	350	2.50	2.60	2.62	XPGDWT-X1-0000-00XPP
			JB2835B 3V G Class	55	0.41	0.44	3.00	JB2835BWT-G-X001A0000-N0000001

WHITE LEDs

Color	Red PPF %	Green/Blue Ratio	LED	Test Current (mA)	Min PPF (μmol/s)	Typ PPF (μmol/s)	PPF/W (μmol/J)	Order Code
5000K 70 CRI	~27%	~2.3	JR5050B 6V K Class	400	---	6.04	2.66	JR5050BWT-K-B50EB0000-N0000001
			JR5050B 30V K Class	80	---	6.04	2.66	JR5050BWT-K-B50EK0000-N0000001
			XLamp XP-G3 S Line	350	2.65	---	2.73	XPGDWT-BS-0000-00N3E
			JB2835B 3V G Class	55	---	0.45	3.05	JB2835BWT-G-B50EA0000-N0000001
4000K 70 CRI	~34%	~3.0	JR5050B 6V K Class	400	---	6.06	2.67	JR5050BWT-K-B40EB0000-N0000001
			JR5050B 30V K Class	80	---	6.06	2.67	JR5050BWT-K-B40EK0000-N0000001
			XLamp XP-G3 S Line	350	2.66	---	2.74	XPGDWT-BS-0000-00N5E
			JB2835B 3V G Class	55	---	0.45	3.06	JB2835BWT-G-B40EA0000-N0000001

• More CCT & CRI options are available for the white LEDs. Please see the product data sheets for more detail.

COLOR LEDs

Color	Red PPF %	Green/Blue Ratio	LED	Test Current (mA)	Min PPF (μmol/s)	Typ PPF (μmol/s)	PPF/W (μmol/J)	Order Code
450 nm (Royal Blue)	---	---	XLamp XP-G3	350	2.77	---	2.83	XPGDRY-L1-0000-00601
			XLamp XP-G3	350	2.58	---	2.64	XPGDRY-L1-0000-00501
			JB2835 3V N Class	140	---	1.01	2.43	JE2835ARY-N-0002A0000-N0000001
660 nm (Photo Red)	~99%	---	XLamp XP-G3 S Line	350	2.85	2.91	4.29	XPGDPR-LS-0000-00G01
			XLamp XP-E2	350	2.44	---	3.41	XPEBPR-L1-0000-00D01
			JB2835 3V N Class	140	---	0.72	2.33	JE2835AHR-N-0001A0000-N0000001
730 nm (Far Red)	---	---	XLamp XP-E2	350	2.34*	---	3.62*	XPEBFR-L1-0000-00B01
			XLamp XP-E2	350	2.20*	---	3.39*	XPEBFR-L1-0000-00A01
			JB2835 3V N Class	140	0.72*	---	2.40*	JE2835AFR-N-0001A0000-N0000001
PC Purple	71%	0.63	JB2835 3V N Class	140	---	0.89	2.20	JE2835APP-N-0001A0000-N0000001

• All performance figures shown for T_j = 25°C

• 730 nm LED flux values shown are photon flux (PF) for the range 380-780 nm